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1 gcgtctccac ccctcagcgg gcggcggtga gtgcgccagg ccagcgccgg cgtgggaccg
61 agcgggcgtg aaggcgcgag ctgaacgctg gcacggtttc ctagatctaa aagaaaggcc
121 gagttagagt acccttccaa AATGGCTGCT ATTAAGGAAG AGAGAGGGT GGAAGATTAC
 181 AAGAGAAAAA GGAAGACGAT CAGCACAGGC CATGAGCCTA AGGAGCCAGA GCAGTTGAGA
 241 AAGCTGTTCA TTGGAGGTCT GAGCTTCGAG ACGACGGATG ATAGCTTGAG AGAGCACTTT
 301 GAAAAATGGG GCACACTCAC GGACTGTGTG GTGATGAGAG ACCCACAAAC AAAACGTTCC
 361 AGAGGCTTTG GCTTTGTTAC TTACTCTTGC GTGGAAGAGG TGGATGCGGC CATGAGCGCT
 421 CGACCACATA AGGTGGATGG ACGTGTGGTT GAACCAAAGA GAGCAGTTTC AAGGGAGGAT
 481 TCTGTAAAGC CTGGGGCGCA TCTCACAGTA AAGAAAATAT TTGTTGGTGG CATTAAAGAA
 541 GATACAGAAG AATATAATTT AAGGGGGTAC TTTGAAACAT ATGGCAAGAT CGAAACGATA
 601 GAAGTCATGG AAGACAGACA AAGTGGAAAG AAAAGAGGCT TCGCTTTTGT AACTTTTGAT
 661 GATCACGATA CAGTTGATAA AATTGTTGTT CAGAAATACC ATACTATAAA TGGTCATAAC
 721 TGCGAAGATA AAAAAGCACT CTCAAAACAA GAGATGCAGA CTGCCAGCTC TCAGAGAGGT
 781 CGTGGGGGTG GTTCAGGCAA CTTCATGGGT CGTGGAAATT TTGGAGGTGG TGGAGGAAAC
 841 TTTGGCCGAG GAGGAAACTT TGGTGGAAGA GGAGGCTATG GGGGTGGTGG TGGCGGTGGT
 901 GGCAGCAGAG GAAGCTTTGG GGGTGGTGAT GGATACAACG GATTTGGTGA TGGTGGCAAC
 961 TATGGAGGTG GTCCTGGCTA TGGCAGCAGA GGGGGTTATG GTGGTGGTGG AGGACCAGGA
1021 TATGGAAACC CAGGTGGTGG ATATGGAGGT GGAGGAGGAG GATATGGTGG CTACAATGAA
1081 GGAGGCAATT TTGGAGGTGG TAATTATGGA GGCAGTGGAA ACTACAATGA CTTTGGTAAC
1141 TACAGTGGAC AGCAGCAGTC CAATTACGGT CCCATGAAAG GTGGTGGCAG TTTTGGTGGT
1201 AGAAGTTCAG GCAGTCCCTA TGGTGGTGGT TATGGATCTG GAAGTGGAAG TGGGGGCTAT
1261 GGTGGTAGAA GATTCTaaaa atgctaccag aaaaagggct acagttctta gcaggagaga
1321 gagcgaggag ttgtcaggaa agctgcaggt tactttgaga cagtcgtccc aaatgcatta
1381 gaggaactgt aaaatctgcc acagaaggaa cgatgatcca tagtcagaaa agttactgca
1441 gcttaaacag gaaacccttc ttgttcagga ctgtcatagc cacagtttgc aaaaagagca
1501 gctattggtt aatgcaatgt agtgtcgtta gatgtacatc ctgaggtctt tatctgttgt
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1681 aaaaaaaaa
```

Fig. 1a

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CHKA1
                           -----SKSESPKEPEQLRKLFIGGLSFETTDESLR
HUMA 1
CHKA1
       EOFEKWGTLTDCVVMRDPQTKRSRGFGFVTYSCVEEVDAAMSARPHKVDG -100
       HUMA1
       RVVEPKRAVSREDSVKPGAHLTVKKIFVGGIKEDTEEYNLRGYFETYGKI -150
CHKA1
       HUMA1
       ETIEVMEDRQSGKKRGFAFVTFDDHDTVDKIVVQKYHTINGHNCEDKKAL -200
CHKA1
       - EVIEIMTDRGSGKKRGFAFVTFDDHDSVDKIVIQKYHTVNGHNCEVRKAL -181
HUMA1
       SKQEMQTASS-QRGRGGGSGNFMGRGNFGGGGG-----NFGRGGNFGG -242
CHKA1
       11111 1111 1
                                      1111111111
                           11111111
       SKQEMASASSSQRGRSGS-----
                           -GNFGGGRGGGFGGNDNFGRGGNFSG -224
HUMA1
CHKA1
       RGGYGGGGGGSRGSFGGGDGYNGFGDGGNYGGGPGYGSRGGYGGGGGP -292
             1111 11
                      11111111
       RGGFGGSRGGGGYGGS---GDGYNGFGNDGS
HUMA1
      - GYGNPGGGYGGGGGGYGGYNEGGNFGGGNYGGSGNYNDFGNYSGOOQSNY -342
CHKA1
                             1 11 1 1111111 1
                          ----NFGGGGSYNDFGNYNNQS-SNF -273
HUMA 1
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                              ----YGSGSGSGGYG-GRRF
CHKA1
       HUMA1
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Fig.1b

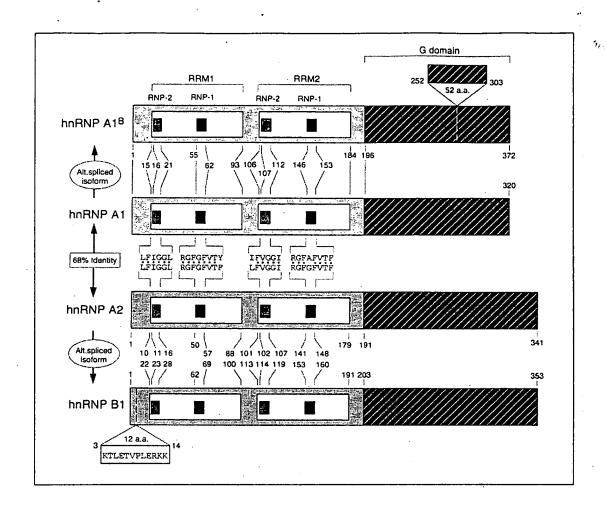


Fig. 2

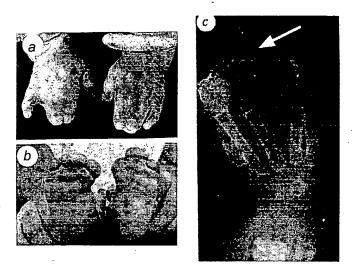


Fig. 3

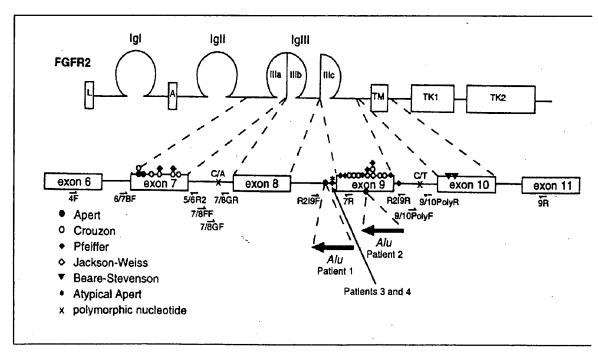
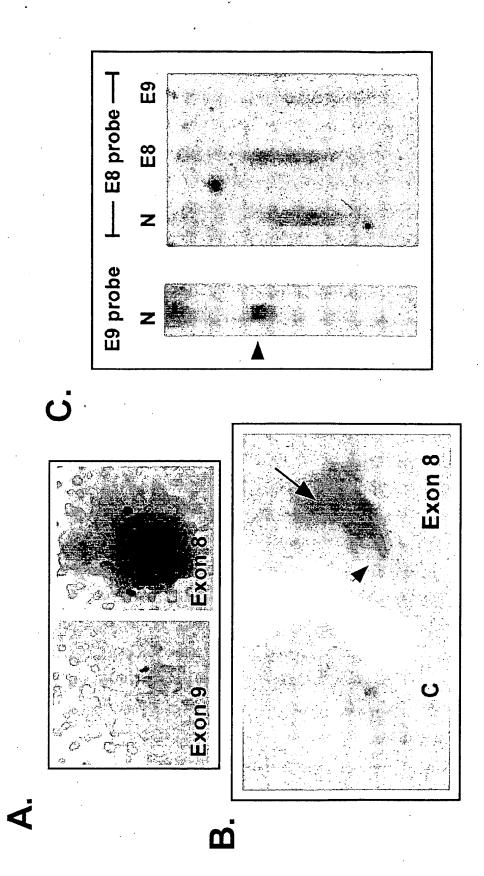


Fig. 4



F19.5